

In re application of: Heather J. Belmont, et al.  
Application No.: 10/024,648  
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requirements as set forth in the " Notice to File Missing Parts of Non Provisional Application."

Attached hereto is a marked-up version of the changes made to the specification and claims by the current amendment. The attached page is captioned:

**"Version with markings to show changes made."**

It is believed the application is in condition for immediate allowance, which action is earnestly solicited.

Respectfully submitted,



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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

**In the specification:**

IN THE SPECIFICATION:

On page 34, lines 22 - 24, have been amended as follows:

(AMENDED) The pPUR vector is modified to include a unique *NotI* site by cutting with *EcoRI* and ligating in the oligonucleotide, AATTGCGGCCGC (SEQ ID NO:1).

On page 34, lines 27 - 28, have been amended as follows:

(AMENDED) TKf: ACTG GGATCCAAAT GAGTCTTCGG (SEQ ID NO: 2).

TKr: ACTG GCGGCCGC CAAACGACCC AACACCCGTG (SEQ ID NO:3).

On page 35, lines 1 -7, have been amended as follows:

(AMENDED) 5'-CC CACCTGGATC TCCCAGATTT GTGAGGAAGG TTGCTGGAGA GC-3' (MUSTCRA 89394-89437, C $\alpha$  exon 4) (SEQ ID NO: 4)

and for the region 5' to C $\alpha$  exon 1:

5'-GGAAA GCCCTGCTGG CTCCAAGATGGCTGAGGGAA AGGTCTACGG-3'

(MUSTCRA 81681-81725, 5' to C $\alpha$  exon 1) (SEQ ID NO: 5).

On page 35, lines 14 -16, have been amended as follows:

(AMENDED) PCa3'f: 5'-TAGTGGATCC CATGCAGAGAGAAACCGAAGTACGTG-3' (SEQ ID NO: 6).

PCa3'r: 5'-GCTACAGAGTGAAGTCATGGATCCTG-3' (SEQ ID NO: 7).

On page 35, lines 24 -26, have been amended as follows:

(AMENDED) PCa5'f: 5'-GGTCT GTGTTCCATA TGACGTCAGT ACG-3' (SEQ ID NO: 8)

PCa5'r: 5'-ATTACATATGGTCCTAACTTAGGTCAGAACTCAGATGC-3' (SEQ ID NO: 9)

On page 38, line 23, has been amended as follows:

(AMENDED) C $\alpha$  exon2 probe: 5'-CG TTCCCTGTGA TGCCACGTTG ACTGAGAAAA GCTTTG-3' (SEQ ID NO: 10).

On page 39, lines 17- 21, have been amended as follows:

(AMENDED) C $\beta$ 1: 5'- TGAGAAAGTC CAAAACTCG GGGTACCATT CCACCATAGA-3' (AE000665 158041-158080) (SEQ ID NO: 11).

C $\beta$ 2: 5'-GGAGT TAACCTGGTT GTGTCTCAGC AGTTTCTTTG GACTCCTGTG-3' (AE000665 168427-168471) (SEQ ID NO: 12)

On page 39, lines 31- 32, have been amended as follows:

(AMENDED) B/N #1 (top): 5'-GAT CCG TTA ACG C-3' (SEQ ID NO: 13)

B/N #2 (bottom): 3'-GC AAT TGC GCC GG-5' (SEQ ID NO: 14)

On page 41, lines 17- 20, have been amended as follows:

(AMENDED) PRIMb5'f: 5'-GGATTCA AAGGTTACCT TATGTGGCCA C-3' (SEQ ID NO: 15)

PRIMb5'r: 5'-GCCCC AAAGGCCTAC CCGCTTCC -3' (SEQ ID NO: 16)

On page 43, lines 22- 25, have been amended as follows:

(AMENDED)

pYAC4 Oligo-(1) 5'-AATTC<sup>FseI</sup>CgCC<sup>KspI</sup>CgCCCCgCg<sup>AscI</sup>gggCgCgCCg-3' (SEQ ID NO: 17)

pYAC4 Oligo-(2) 5' AATTCgCgCgCCCCgCg<sup>ggg</sup>CCgCg-3' (SEQ ID NO: 18)

On page 46, lines 20- 24, have been amended as follows:

(AMENDED) Screening oligo #1- 5'- GTCTCTACTT TACTAAAAAT  
ACAAAAATTA GCCAGGTGTG GTGGTG-3' (SEQ ID NO: 19)

Screening oligo #2-5'- GTCACAGGGC TGAGGGAAGG AGACAAGAGC CTGGACAGCA-  
3' (SEQ ID NO: 20)

On page 56, lines 3- 5, have been amended as follows:

(AMENDED) V $\beta$  (near C term) VW510: ATCCTTTCTCTTGACCATGGCCATC (SEQ  
ID NO: 21)

V $\alpha$  (near C term) VW512: GCTGGACCACAGCCGCAGCGTCATG (SEQ ID NO: 22)

On page 58, lines 19- 21, have been amended as follows:

(AMENDED) Recombinant bacteria containing the HLA-A2 gene are detected by colony  
hybridization (Hanahan, D, and M. Meselson (1980) Gene 10:63-67), using the synthetic  
oligonucleotide 5'-TGTCTCCCCGTCCCAAT-3' (SEQ ID NO: 23) as a probe.